

~~1809~~ Fish Hawk
Chesapeake Bay
1809 1892-1893.
~~55~~
1828
July 1892

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1809 to 1828

91
11
18
12
132

1809 SSW E Plantation Flats

SW E limestone at No

Ship Head SW X S

1810

Ship Head SW 1/2 W

CP Flat SE 1/2 E ✓
Limestone E N E

1811

Ship Head NW SW 1/2 W

New Point SW X W
Hole Trap SW X SW

1812

Ship Head E X N 1/2 W

W W R C - N E X N

String NW W X S

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1809

Date, Aug 8 1892Time of day, 120 m; of tide, FloodLocality, Chesapeake BayExact position, Patuxent River 5° 48' N 76° 48' W 1/4 mileChesapeake Bay 5° 48' N 76° 48' WDepth, 13 fmsNature of bottom, StickyDredging instrument used, 7 ft Beam TrawlDirection of drift, E X S; distance, 1/8 mileTemperature of air, 60 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0200 temp., 53

" at depth of fathoms, "

" at bottom, 10220 " 57

Number of salinometer,

Barometer reading, 30-18State of sky, CloudyDirection of wind, SW; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish HawkService to which attached, 4876

Name and rank of commanding officer,

Robert Plate Lt. M.R.N.

Name and position of observer,

John C. Mather Jr.

NOTES RELATING TO STATION NO. 1809.

Croakers Flounders
1 star fish Blue crabs Hermit
Crabs

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1810

Date, November 8th 1892

Time of day, 9.45 A.M. of tide, Flood

Locality, Chesapeake Bay

Exact position, $\frac{1}{2}$ mile SW of Reel

Rocky No 8

Depth, 24 fms

Nature of bottom, Hard

Dredging instrument used, Port Beam Trawl

Direction of drift, S & E ; distance, $\frac{1}{16}$ mile

Temperature of air, 60 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10200 temp., 54

" at depth of fathoms, "

" at bottom, 1021.6 " 58

Number of salinometer,

Barometer reading, 30.18

State of sky, cloudy

Direction of wind, SW ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel U.S. Fish Hawk

Service to which attached, U.S. Fish Hawk

Name and rank of commanding officer,

Robert Platt do 2682

Name and position of observer,

John M. Mather

NOTES RELATING TO STATION NO. 1810

Hogfishes or rays, Starfish
Lemahines Whiting 12 young found
Crabs = *Neptunus gibberii*

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1811

Date, November 8th 1892

Time of day, 11.04th m; of tide, Flood

Locality, Chesapeake Bay

Exact position, New Pt St Ho W 1/8 S 5 1/4 miles

NW Ledge L-140 1 x N 4 1/8.

Depth, 6 fms

Nature of bottom, Sand

Dredging instrument used, Barn Trawl

Direction of drift, SSW ; distance, 4/8 mile

Temperature of air, 66 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10182

temp., 58

" at depth of fathoms, "

" at bottom, 10194 "

" 58

Number of salinometer,

Barometer reading, 3018

State of sky, cloudy

Direction of wind, SW ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. Fish Hawk

Name and rank of commanding officer,

Robert Plate Lt U.S.N.

Name and position of observer,

Bethelton
Matthew S. S.

NOTES RELATING TO STATION NO. 1811

Spots whiting Flounders
young Croaker, 1 front

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1812

Date, November 8th 1892

Time of day, 1 P.M. ; of tide, High

Locality, Chesapeake Bay

Exact position, $\frac{1}{2}$ mile & $\frac{7}{8}$ of Singray Pt
Lo No

Depth, 4 fathoms 5 feet

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, ~~W~~SW ; distance, $\frac{1}{8}$ mile

Temperature of air, 64 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10162 temp., 57

" at depth of fathoms, "

" at bottom, 10164 "

Number of salinometer,

Barometer reading, 30.18

State of sky, cloudy

Direction of wind, NNE ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, 26 S 76 Str Fish Hawk

Service to which attached, 26 S 7 Com

Name and rank of commanding officer,

Robert Platt Lt 26 S 7

Name and position of observer,

Midnight
Matten

NOTES RELATING TO STATION NO. 1812

About two dozen small open
florulae living on rocks

**RECORD OF DREDGING,
TEMPERATURE AND DENSITY.**

Station No. 1863

Date, Jan 19 (0th)

Time of day, 11:30 : of tide, flood

Locality, Liverpool Bay

Exact position,

1½ miles west of Smith Pt at Ho

Depth, 10 fms & ft

Nature of bottom, Hard

Dredging instrument used, B V

Direction of drift, S ; distance, ¼ mile

Temperature of air, 44 therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, 1.015.4

temp., 56

" at depth of fathoms,

" at bottom, 1.015.8

" 56

Number of salinometer,

Barometer reading, 29.96

State of sky, cloudy

Direction of wind, N.W. ; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, New Haven Fish Hawk

Service to which attached, U.S.A.

Name and rank of commanding officer,

John C. Stetson

Name and position of observer,

NOTES RELATING TO STATION NO. 1813

Hogback Crater
Hogback Series

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1014

Date, March 15

Time of day, 11:19 A.M.; of tide, High Water

Locality, Mouth of Hudson River

Exact position, Between New York and New Jersey 1/2 mile

Depth, 13 fms

Nature of bottom, Hard

Dredging instrument used, Dredge

Direction of drift, N E W; distance, 1/2 mile

Temperature of air, 52 therm. No.,

" of surface water, 44.2 "

" at depth of fathoms,

" at bottom,

Density at surface, 1.0192 temp., 42

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.02

State of sky, Partly cloudy

Direction of wind, N.W.; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. Fish Hawk

Name and rank of commanding officer, Lt. Col. J. G. M. Robt.

Lt. W. H.

Name and position of observer,

John Wright
Master-at-Arms

NOTES RELATING TO STATION NO. 1

See following page

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1815-

Date, March 20th 1873

Time of day, 11.40 A.M.; of tide, High Tide

Locality, South Channel, Long Island

Exact position, Between 50 Hoban & 5th St.
about 8⁹/₁₀ miles

Depth, 13 fms. 2 feet

Nature of bottom, Hard

Dredging instrument used, Dredge

Direction of drift, S X W $\frac{1}{2}$ N; distance, $\frac{1}{4}$ mile

Temperature of air, 58 therm. No.,

" of surface water, 44.3 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.019.2 temp., 43

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky, Calm

Direction of wind, N.W.; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. Fish Hawk

Name and rank of commanding officer, Robert M. Scott
Lieut. 2d M.R.

Name and position of observer,

W. H. Bishop
Master

NOTES RELATING TO STATION NO. 18

Topographic
Survey of Oregon
1855

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1816

Date, March 27th 1863

Time of day, 10 A.M.; of tide, High Water

Locality, Mouth of Chesapeake Bay

Exact position, Cape Henry S.S.E.

Distance from station

Depth, 11 fms.

Nature of bottom, Hard

Dredging instrument used, Dredge

Direction of drift, S.S.E.; distance, $\frac{1}{4}$ mile

Temperature of air, 59 therm. No.,

" of surface water, 43

" at depth of fathoms,

" at bottom,

Density at surface, 1018.6 temp., 43

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.415

State of sky, Partly cloudy

Direction of wind, North; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.A.T. Fish Hawk

Service to which attached, U.S.A.T.

Name and rank of commanding officer, Robert Blake

Date dredged

Name and position of observer,

John M. Smith

NOTES RELATING TO STATION NO.

Skate Night -
To fish along Skating
area.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1817

Date, March 20, 1873

Time of day, 12.30 P.M.; of tide, Ebb

Locality, Mouth of Chesapeake Bay

Exact position, Cape Henry E & S 3 miles

Cape Charles Bay SSW 1½ miles

Depth, 4 fms 2 ft

Nature of bottom, ~~Hard~~Dredging instrument used, ~~Conical~~Direction of drift, ~~ESE~~; distance, ~~1½ miles~~

Temperature of air, 61 therm. No.,

" of surface water, 64 " "

" at depth of fathoms, " "

" at bottom, " "

Density at surface, 1.024 temp., 64

" at depth of fathoms, " "

" at bottom, " "

Number of salinometer,

Barometer reading,

State of sky, ~~Cloudy~~Direction of wind, ~~Southerly~~; force, 2-

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, ~~U.S. Fish Hawk~~Service to which attached, ~~U.S. Fish Hawk~~

Name and rank of commanding officer,

~~John G. Green~~

Name and position of observer,

~~John G. Green
Midshipman
Navy~~

NOTES RELATING TO STATION NO. 162

Steep slope
30° - 45°

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1817

Date, March 20th 1883

Time of day, 1. P.M.; of tide, High

Locality,

Exact position, Off New Haven, about 5 miles

West of New Haven, ENE 6 miles

Depth, 4.5 fms

Nature of bottom, rocky

Dredging instrument used, Dredge

Direction of drift, ENE ; distance, 1/4 mile

Temperature of air, - therm. No.,

" of surface water, 43 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.025 temp., 43.5

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.0415

State of sky, clear

Direction of wind, NNE ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, W. S. B. Fish Hawk

Service to which attached, W. S. B.

Name and rank of commanding officer, Robert H. M.

W. S. B.

Name and position of observer,

John H. Green

NOTES RELATING TO STATION NO. *11*

Franklin

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1819

Date, March 26th 1893

Time of day, 2.38 P.M.; of tide, ebb

Locality, Chesapeake Bay

Exact position, Fort Wool at 11.7 W. from

Winkler Shoal at 1.5 miles S.

Depth, 4.1

Nature of bottom, sticky

Dredging instrument used, clam shell

Direction of drift, S X E : distance, 1/2 mile

Temperature of air, 63 therm. No.,

" of surface water, 14 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10.16, 6 temp., 44

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.41

State of sky, clear

Direction of wind, N.W. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. S. The Gridiron

Service to which attached, U.S.C.G.

Name and rank of commanding officer, Robert P. Smith

Supt. U.S. C.G.

Name and position of observer,

Mark W. Johnson

NOTES RELATING TO STATION NO. 1619

Water level present

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 820

Date, June 10, 1873

Time of day, 2.50 P.M.; of tide, High

Locality, Chesapeake Bay

Exact position. Fort Ross ~~about 1/8~~ milesFrom the bottom 3 $\frac{1}{8}$ miles

Depth, 3, 2

Nature of bottom, Sand

Dredging instrument used, Tamm Trawl

Direction of drift, North; distance, 1/8 miles

Temperature of air, 70 therm. No.,

" of surface water, 44

" at depth of fathoms,

" at bottom,

Density at surface, 10.16 temp., 44

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.04

State of sky, Clear

Direction of wind, North; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.A.T. "Chesapeake"

Service to which attached, U.S.

Name and rank of commanding officer, Robert B.

~~U.S. Navigational Officer~~

Name and position of observer,

NOTES RELATING TO STATION NO. 1626

Small bog
near water

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No.

18.

Date,

March 20th 1873

Time of day,

3, 15 P.M.; of tide,

Locality,

Whimble St & 1/2 w 1/2 miles

Exact position,

Whimble St Ht & 1/2 w 1/2 miles

Farragut W 1/2 S 2 1/2 miles

Depth,

3 fms.

Nature of bottom,

Sandy

Dredging instrument used,

Beam Tread

Direction of drift,

S W X S ; distance, 1/2 mile

Temperature of air,

62

therm. No.,

" of surface water, 63.5

" at depth of fathoms,

" at bottom,

Density at surface,

1016

temp.,

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

30.41

State of sky,

clear

Direction of wind,

North ; force, 2

Rain,

Direction of surface current,

; force,

" of bottom " : force,

Name of vessel,

U.S. Fish Survey

Service to which attached,

U.S. Fish Survey

Name and rank of commanding officer,

Robert Elliott

Name and position of observer,

John C. M. Smith

Name and position of observer,

John C. M. Smith

NOTES RELATING TO STATION NO. 1631

4 miles S. of town
Hempstead Flats

of grass

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1023

Date, March 21 1893

Time of day, 9 A.M.; of tide, Flood

Locality, Cixapulca Key

Exact position, Between the two $\frac{1}{2}$ miles $1\frac{1}{2}$ miles from the shore, $10^{\circ} 45' E 2\frac{1}{4}$ miles

Depth, 15 fms.

Nature of bottom, soft

Dredging instrument used, dredge

Direction of drift, SSW; distance, 1 mile

Temperature of air, 67 therm. No.,

" of surface water, 42.5 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.024 temp., 67

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.23

State of sky, cloudy

Direction of wind, N.E.; force, 2

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U.S.A.T. Fish Hawk

Service to which attached, U.S.A.T.

Name and rank of commanding officer, Capt. F.

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1023

Date, March 2, 1878

Time of day, 11, 2 ^{1/2}; of tide, low

Locality, Bluefish Bay

Exact position, off Fort Stockton 1/8

about 2 miles N.E. 2 miles

Depth, 26 fathoms

Nature of bottom,

Dredging instrument used, dredge

Direction of drift, S.E.; distance, 1 mile

Temperature of air, 47 therm. No.,

" of surface water, 41 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1018.4 temp., 41

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky, cloudy, drizzling rain

Direction of wind, E. S. E.; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Commission

Service to which attached, U.S. F.C.

Name and rank of commanding officer, Robert B. Say

Name and position of observer,

NOTES RELATING TO STATION NO. 1823

Lobate Hake starfish
Winkles, Hermit crabs
Sea cucumbers, Petalium shell
with coral on same, Shrimps
Spider crabs

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1824

Date, March 1st 1873

Time of day, 10.56 A.M.; of tide,

Locality, Long Island Bay

Exact position, Plantation Flats off 86¹/₂ miles
Long Island 10 m & 1¹/₂ miles

Depth, 23

Nature of bottom, Hard

Dredging instrument used,

Direction of drift, E¹/₂ S : distance, 1¹/₂ miles

Temperature of air, 51 therm. No.,

" of surface water, 41 "

" at depth of fathoms. "

" at bottom, "

Density at surface, 2018.4 temp., 41

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.22

State of sky, cloudy drizzling rain

Direction of wind, N.E. ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, 26 ft. Fish Hawk

Service to which attached, 26 ft. C

Name and rank of commanding officer, Robt. T. Pease

R. T. Pease

Name and position of observer,

John H. Green
W. M. Green

NOTES RELATING TO STATION NO. 1824

Nothing, but town very badly.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1825

Date, March 21st 1893Time of day, 11.33^m; of tide, Flood

Locality, Chesapeake Bay

Exact position, Center Harbor 32 $\frac{1}{2}$ Emiles west from ALEX & 2 $\frac{1}{4}$ miles

Depth, 18 fms

Nature of bottom, rocky

Dredging instrument used, Oyster dredge

Direction of drift, N. W.; distance, 1 mile

Temperature of air, 51 therm. No.,

" of surface water, 41 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1018.8 temp., 41

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.22

State of sky, cloudy, noizzle rain

Direction of wind, SSW; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F. & T. Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robert H. Smith

Dredge No. 3

Name and position of observer,

John G. Johnson
Mate when

NOTES RELATING TO STATION NO. 1125

the Cacumbas Mud

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 126

Date, March 24/1873

Time of day, 1.08 P.M.; of tide, flood

Locality, Nobska Point Bay

Exact position, New Pt. M at W. 28° mil

Yanketot No. —

Depth, 4; 3

Nature of bottom, Hard

Dredging instrument used, Bear Trap

Direction of drift, ENE; distance, 1/4 mile

Temperature of air, 63 therm. No..

" of surface water, 62

" at depth of fathoms, ..

" at bottom, ..

Density at surface, 1.0156 temp. 42

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer,

Barometer reading, 29.87

State of sky, Blue

Direction of wind, South; force, 3

Rain,

Direction of surface current, ; force, ..

" of bottom " ; force,

Name of vessel, U.S.C. Ste. Fish Hawk

Service to which attached, 26876

Name and rank of commanding officer, Robert M. Scott
Lieut. U.S.N.

Name and position of observer,

W. C. Moore
Met. Obs.

NOTES RELATING TO STATION NO. 1826

Rough bottom by dredge

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1827

Date, March 24, 1873

Time of day, 3.04 P.M.; of tide, flood

Locality, Between water & land

Exact position, Simeon's Point N. 45° W. 8 miles

Windmill Pt. St. N. 45° W. 8 miles 47 minutes

Depth, 4 fms

Nature of bottom, Sticky

Dredging instrument used, Beam Trowel

Direction of drift, E. N. E.; distance, 1/8 mile

Temperature of air, 63 therm. No.,

" of surface water, 42 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1014.0 temp., 24.2

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.82

State of sky, cloudy

Direction of wind, S. W.; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Goblet Starboard Hawk

Service to which attached, U. S. C. S.

Name and rank of commanding officer, Robert Platt

Captain U. S. N.

Name and position of observer,

John Langford
W. D. C. S.

NOTES RELATING TO STATION NO. 1822

- no small mts & hills
no large lake seen

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1828

Date, March 24th 1893

Time of day, 3.38 P.M.; of tide, High

Locality, Chesapeake Bay

Exact position, Shinnecock Harbor 1/2 mile
water mill at Sec No 44 E 1/2 S 2 7/8 mile

Depth, 4.2

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, N.E.W.E. ; distance, 1/8 mile

Temperature of air, 62 therm. No.,

" of surface water, 42 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1014.0 temp., 42

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.82

State of sky, cloudy

Direction of wind, South ; force, 4.

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.A.T. Fish Hawk

Service to which attached, U.S.A.T.

Name and rank of commanding officer, Captain W. G. M.

Name and position of observer,

F. L. M. - 6
W. G. M.

NOTES RELATING TO STATION NO. 1828

A few oysters, shrimp, mussels
seen weed.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1829

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, temp.,

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky.

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, temp.,

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; off tide.

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

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Name and rank of commanding officer,

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Exact position,

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Nature of bottom,

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